PALM Intranet

Application Number SEARCH

IDS Flag Clearance for Application 10642846

IDS Information

Content	Mailroom Date	Entry Number	IDS Review	Reviewer
M844	08-18-2003	14	☑	02-23-2004 12:20:19 egillis
M844	08-08-2005	45	☑	09-20-2005 07:39:04 asmith3

UPDATE

WEST Search History

Hide Items | Restore | Clear | Cancel

DATE: Sunday, January 22, 2006

Hide?	Set Name	Query	Hit Count
		DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ	
☐	L74	l27 and (((dampen$4 or damp$3) or ((reduc$4 or block$4 or decreas$4 or lower$3 or minimiz$4) with (noise or sound or acoustic$4))) with ((viscoelastic or viscoelasti$4) with (rubber$4 or foam)))	1
☐	L73	L72 and ((inner or outer or inside or outside or internal$2 or external$2 or surface or first or second or primary or secondary) with (gradient))	1
☐	L72	l58 and (((dampen$4 or damp$3) or ((reduc$4 or block$4 or decreas$4 or lower$3 or minimiz$4) with (noise or sound or acoustic$4))) with ((viscoelastic or viscoelasti$4) with (rubber$4 or foam)))	5
☐	L71	l62 and (((dampen$4 or damp$3) or ((reduc$4 or block$4 or decreas$4 or lower$3 or minimiz$4) with (noise or sound or acoustic$4))) with ((viscoelastic or viscoelasti$4) with (rubber$4 or foam)))	1
☐	L70	l62 and ("adjacent$2")	0
☐	L69	l62 and (vertical$2 with (non-contact$4 or separat$4))	0
☐	L68	L60 and L27	4
☐	L67	L66 and (gradient with coil with assembly)	3
☐	L66	L65 and ((viscoelastic or viscoelasti$4) with (rubber$4 or foam))	4
☐	L65	L64 and (ceramic or glass or filament or carbon or fiber or fibrous or non-conduct$4 or "non conduct$4" or modulus)	4
☐	L64	L63 and ((inner or outer or inside or outside or internal$2 or external$2 or surface or first or second or primary or secondary) with (gradient with coil))	4
☐	L63	L62 and (gradient with coil)	4
☐	L62	L61 and (layer or film or insulat$4 or sandwich$4)	33
☐	L61	L60 and ((dampen$4 or damp$3) or ((reduc$4 or block$4 or decreas$4 or lower$3 or minimiz$4) with (noise or sound or acoustic$4)))	33
☐	L60	L59 and ((inner or outer or inside or outside or internal$2 or external$2 or surface or first or second or primary or secondary) with (gradient))	40
☐	L59	L58 and (viscoelastic or viscoelasti$4) with ((rubber$4 or polyester or urethane or foam or polymer))	509
☐	L58	((magnetic adj resonance) or MRI or NMR)	219076
☐	L57	L33 and (viscoelastic or viscoelasti$4) with ((rubber$4 or polyester or urethane or foam or polymer))	3
☐	L56	6492816	3
☐	L55	6081117	4
☐	L54	5886548	10

☐	L53	5990680	8
☐	L52	L51 and (ceramic or glass or filament or carbon or fiber or fibrous or non-conduct$4 or "non conduct$4" or modulus)	51
☐	L51	L50 and (viscoelastic or viscoelasti$4 or rubber$4 or polyester or urethane or foam or polymer)	59
☐	L50	L48 and ((dampen$4 or damp$3) or ((reduc$4 or block$4 or decreas$4 or lower$3 or minimiz$4) with (noise or sound or acoustic$4)))	137
☐	L49	L48 and ((magnetic adj resonance) or MRI or NMR)	292
☐	L48	((self with shield$3) and (gradient))	556
☐	L47	L46 and (gradient)	2
☐	L46	L45 and (self with shield$3)	2
☐	L45	5570021	24
☐	L44	(4646024| 4737716| 4978920| 5570021)![pn]	8
☐	L43	L40 and (viscoelastic or viscoelasti$4 or rubber$4 or polyester or urethane or foam or polymer)	6
☐	L42	L41 and ((dampen$4 or damp$3) or ((reduc$4 or block$4 or decreas$4 or lower$3 or minimiz$4) with (noise or sound or acoustic$4)))	15
☐	L41	L40 and (inner or outer or inside or outside or internal$2 or external$2 or surface or first or second or primary or secondary)	55
☐	L40	(self with shield$4 with gradient with (device or apparatus or assembly))	56
☐	L39	(self with shield$4 with gradient with assembly)	49
	DB=USPT; PLUR=YES; OP=ADJ		
☐	L38	6252404.pn.	1
☐	L37	6252404.pn.	1
	DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ		
☐	L36	fetzner and acoustic$4	18
☐	L35	L34 and (layer or film or insulat$4 or sandwich$4)	30
☐	L34	L33 and (cylinder or tube or cylindrical$2 or bore)	35
☐	L33	L32 and (ceramic or glass or filament or carbon or fiber or fibrous or non-conduct$4 or "non conduct$4" or modulus)	35
☐	L32	L31 and (viscoelastic or viscoelasti$4 or rubber$4 or polyester or urethane or foam or polymer)	45
☐	L31	L30 and ((dampen$4 or damp$3) or ((reduc$4 or block$4 or decreas$4 or lower$3 or minimiz$4) with (noise or sound or acoustic$4)))	142
☐	L30	L16 and ((inner or outer or inside or outside or internal$2 or external$2 or surface or first or second or primary or secondary) with (gradient) with (assembl$4))	488
☐	L29	L28 and (outer with inner with gradient)	29
☐	L28	L27 and L22	73
☐	L27	L26 or L25 or L24	15536
☐	L26	(335/296 |335/297 |335/298 |335/299 |335/300 |335/301).ccls. (600/407 |600/408 |600/409 |600/410 |600/411 |600/412 |600/413 |600/414	2839

☐	L25	|600/415 |600/416 |600/417 |600/418 |600/419 |600/420 |600/421 |600/422 |600/423).ccls.	5498
☐	L24	(324/300 |324/301 |324/302 |324/303 |324/304 |324/305 |324/306 |324/307 |324/308 |324/309 |324/310 |324/311 |324/312 |324/313 |324/314 |324/315 |324/316 |324/317 |324/318 |324/319 |324/320 |324/321 |324/322).ccls.	8706
☐	L23	L22 and (viscoelastic or viscoelasti$4)	27
☐	L22	L21 and (layer or film or insulat$4 or sandwich$4)	173
☐	L21	L20 and (cylinder or tube or cylindrical$2 or bore)	193
☐	L20	L19 and (ceramic or glass or filament or carbon or fiber or fibrous or non-conduct$4 or "non conduct$4" or modulus)	208
☐	L19	L18 and (viscoelastic or viscoelasti$4 or rubber$4 or polyester or urethane or foam or polymer)	266
☐	L18	L17 and ((dampen$4 or damp$3) or ((reduc$4 or block$4 or decreas$4 or lower$3 or minimiz$4) with (noise or sound or acoustic$4)))	915
☐	L17	L16 and (gradient with (coil or assembly or assemblies))	3358
☐	L16	L15 and ((inner or outer or inside or outside or internal$2 or external$2 or surface or first or second or primary or secondary) with (gradient))	7522
☐	L15	L14 and (inner or outer or inside or outside or internal$2 or external$2 or surface)	37306
☐	L14	L13 and (gradient)	49002
☐	L13	((magnetic adj resonance) or MRI or NMR)	219076
☐	L12	L10 and (gradient with coil)	11
☐	L11	L10 and (gradient adj coil)	10
☐	L10	L9 and (cylinder or tube or cylindrical$2 or bore)	79
☐	L9	L8 and (rubber or foam)	81
☐	L8	L7 and (ceramic or glass or filament or carbon or fiber or fibrous or non-conduct$4 or "non conduct$4" or modulus)	88
☐	L7	L6 and (inner or outer or inside or outside or internal$2 or external$2 or surface)	88
☐	L6	L5 and (layer or film or insulat$4 or sandwich$4)	90
☐	L5	L3 and ((dampen$4 or damp$3) or ((reduc$4 or block$4 or decreas$4 or lower$3 or minimiz$4) with (noise or sound or acoustic$4)))	93
☐	L4	L3 and (dampen$4 or ((reduc$4 or block$4 or decreas$4 or lower$3 or minimiz$4) with (noise or sound oe acoustic$4)))	43
☐	L3	L2 and (gradient)	402
☐	L2	L1 and ((magnetic adj resonance) or MRI or NMR)	1178
☐	L1	viscoelastic	19407

END OF SEARCH HISTORY

Hit List

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Search Results - Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: US 20050134269 A1

Using default format because multiple data bases are involved.

L68: Entry 1 of 4 File: PGPB Jun 23, 2005

PGPUB-DOCUMENT-NUMBER: 20050134269
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050134269 A1

TITLE: GRADIENT COIL APPARATUS AND METHOD OF ASSEMBLY THEREOF

PUBLICATION-DATE: June 23, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Feenan, Peter John	Freeland		GB
Evans, Christopher John	Haddenham		GB
Langtry, Anthony	Oxford		GB
Cirel, Christopher Mark	Oxford		GB

US-CL-CURRENT: 324/318; 29/600

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 2. Document ID: US 20050040825 A1

L68: Entry 2 of 4 File: PGPB Feb 24, 2005

PGPUB-DOCUMENT-NUMBER: 20050040825
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050040825 A1

TITLE: Acoustically damped gradient coil

PUBLICATION-DATE: February 24, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Sellers, Michael Ben	Florence	SC	US
Duby, Tomas	Florence	SC	US
Clarke, Neil	Florence	SC	US
Mantone, Anthony	Florence	SC	US

US-CL-CURRENT: 324/318

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 3. Document ID: US 6940281 B2

L68: Entry 3 of 4 File: USPT Sep 6, 2005

US-PAT-NO: 6940281
DOCUMENT-IDENTIFIER: US 6940281 B2

TITLE: Gradient coil apparatus and method of assembly thereof

DATE-ISSUED: September 6, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Feenan; Peter John	Freeland			GB
Evans; Christopher John	Haddenham			GB
Langtry; Anthony	Oxford			GB
Cirel; Christopher Mark	Oxford			GB

US-CL-CURRENT: 324/318; 324/309

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D

☐ 4. Document ID: US 4954781 A

L68: Entry 4 of 4 File: USPT Sep 4, 1990

US-PAT-NO: 4954781
DOCUMENT-IDENTIFIER: US 4954781 A

TITLE: Nuclear magnetic resonance imaging apparatus with reduced acoustic noise

DATE-ISSUED: September 4, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hirata; Haruhiko	Yokohama			JP

US-CL-CURRENT: 324/318; 324/300, 335/219

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D

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Term	Documents

(60 AND 27).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	4
(L60 AND L27).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	4

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Previous Page Next Page Go to Doc#

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Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 20050040825 A1

Using default format because multiple data bases are involved.

L71: Entry 1 of 1 File: PGPB Feb 24, 2005

PGPUB-DOCUMENT-NUMBER: 20050040825
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050040825 A1

TITLE: Acoustically damped gradient coil

PUBLICATION-DATE: February 24, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Sellers, Michael Ben	Florence	SC	US
Duby, Tomas	Florence	SC	US
Clarke, Neil	Florence	SC	US
Mantone, Anthony	Florence	SC	US

US-CL-CURRENT: 324/318

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Term	Documents
NOISE	878645
NOISES	79505
NOIZE	263
NOIZES	11
SOUND	557043
SOUNDS	93448
VISCOELASTIC	19351
VISCOELASTICS	158
FOAM	438898
FOAMS	78948

DAMPEN$4	0
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Previous Page Next Page Go to Doc#

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Search Results - Record(s) 1 through 5 of 5 returned.

☐ 1. Document ID: US 20050040825 A1

Using default format because multiple data bases are involved.

L72: Entry 1 of 5 File: PGPB Feb 24, 2005

PGPUB-DOCUMENT-NUMBER: 20050040825
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050040825 A1

TITLE: Acoustically damped gradient coil

PUBLICATION-DATE: February 24, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Sellers, Michael Ben	Florence	SC	US
Duby, Tomas	Florence	SC	US
Clarke, Neil	Florence	SC	US
Mantone, Anthony	Florence	SC	US

US-CL-CURRENT: 324/318

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 2. Document ID: US 6212283 B1

L72: Entry 2 of 5 File: USPT Apr 3, 2001

US-PAT-NO: 6212283
DOCUMENT-IDENTIFIER: US 6212283 B1

TITLE: Articulation assembly for intracanal hearing devices

DATE-ISSUED: April 3, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fletcher; Henry	Cameron Park	CA		
Urso; Richard C.	Redwood City	CA		
Sorensen; Jorgen	Tracy	CA		
Shennib; Adnan	Fremont	CA		

US-CL-CURRENT: 381/313; 381/324, 381/328, 381/329

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D

☐ 3. Document ID: US 5238215 A

L72: Entry 3 of 5 File: USPT Aug 24, 1993

US-PAT-NO: 5238215
DOCUMENT-IDENTIFIER: US 5238215 A

TITLE: Vibration-damping mount

DATE-ISSUED: August 24, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jeker; Rene	Hombrechtikon			CH
Reiser; Rudolf	Kusnacht			CH

US-CL-CURRENT: 248/638; 248/581, 248/631, 248/678

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D

☐ 4. Document ID: US 4942219 A

L72: Entry 4 of 5 File: USPT Jul 17, 1990

US-PAT-NO: 4942219
DOCUMENT-IDENTIFIER: US 4942219 A

TITLE: Viscoelastic resin for vibration damping material and composition containing the same

DATE-ISSUED: July 17, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yatsuka; Takeshi	Osaka			JP
Yamazoe; Seiji	Osaka			JP
Hirakouchi; Hiroshi	Osaka			JP
Mizumura; Yutaka	Osaka			JP
Endo; Hiroshi	Sagamihara			JP
Kadowaki; Nobuo	Sagamihara			JP

US-CL-CURRENT: 528/272; 252/62, 428/458, 428/924, 525/438, 525/440, 525/454, 528/288, 528/296, 528/297, 528/299, 528/302 , 528/308, 528/308.7

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D

☐ 5. Document ID: US 4859523 A

L72: Entry 5 of 5 File: USPT Aug 22, 1989

US-PAT-NO: 4859523
DOCUMENT-IDENTIFIER: US 4859523 A

TITLE: Viscoelastic resin for vibration damping material

DATE-ISSUED: August 22, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Endoh; Hiroshi	Sagamihara			JP
Zama; Yoshimasa	Sagamihara			JP
Kadowaki; Nobuo	Sagamihara			JP
Yatuka; Takeshi	Ohtsu			JP
Nagai; Hiroshi	Ohtsu			JP
Mizumura; Yutaka	Ohtsu			JP

US-CL-CURRENT: 428/215; 428/425.8, 428/457, 428/480, 528/66

Full | Title | Citation | Front | Review | Classification | Date | References | | | Claims | KWIC | Draw D

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Term	Documents
NOISE	878645
NOISES	79505
NOIZE	263
NOIZES	11
SOUND	557043
SOUNDS	93448
VISCOELASTIC	19351
VISCOELASTICS	158
FOAM	438898
FOAMS	78948
DAMPEN$4	0
(L58 AND (((DAMPEN$4 OR DAMP$3) OR ((REDUC$4 OR BLOCK$4 OR DECREAS$4 OR LOWER$3 OR MINIMIZ$4) WITH (NOISE OR SOUND OR ACOUSTIC$4))) WITH ((VISCOELASTIC OR VISCOELASTI$4) WITH (RUBBER$4 OR FOAM)))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	5

L72: Entry 2 of 5 File: USPT Apr 3, 2001

DOCUMENT-IDENTIFIER: US 6212283 B1
TITLE: Articulation assembly for intracanal hearing devices

Brief Summary Text (9):
The morphology of the ear canal reveals substantial deformation within the cartilaginous area 23 of the canal as a result of mandibular motion associated with talking, chewing, yawning, and biting. This deformation is generally caused by the asymmetric stresses from the actions of the mandibular condyle 33 on neighboring cartilaginous tissue. These deformations have radial components, e.g. constrictions, and axial components, i.e. inward and outward motion. These radial and axial deformations can generally be felt when one inserts a finger in the ear canal and moves the jaw. In one study, using magnetic resonance imaging (MRI), the deformation was shown to be as much as 25% in the anterior-posterior direction of the cartilaginous region of the canal (see, for example Oliveira, R. J., Hammer, B., Stillman, A., Holm, J., Jons, C., Margolis, R. H., A Look at Ear Canal Changes with Jaw Motion, Ear and Hearing, Vol. 13, No. 6, 1992, pp. 464-466.)

Detailed Description Text (19):
To further increase the mechano-acoustic isolation of the main module 40 from the receiver module 50, a vibration damper ring 46 is provided between the ball socket 62 and the main housing wall 41 as shown in FIG. 10. The vibration damper ring 46 is preferably made of a durable viscoelastic material such as certain types of rubber. A lubricant 49 coating the ball head 61 further provides mechano-acoustic isolation as well as minimizing friction between the ball head 61 and ball socket 62. The lubricant material may be petroleum-based such as Chevron SRI-2 or a fluorinated grease such as Krytox 240-AC.

L72: Entry 3 of 5 File: USPT Aug 24, 1993

DOCUMENT-IDENTIFIER: US 5238215 A
TITLE: Vibration-damping mount

Brief Summary Text (5):
With known stands for holding a superconducting magnet (located in a cryostat) of an NMR spectrometer, it is also not possible to replace an existing stand, which is holding a cryostat that is in use, with a different stand without removing the cryostat with the superconducting magnet, or at least changing its position. If the position of a superconducting magnet (located in a cryostat) of an NMR spectrometer is changed, a complex and laborious readjustment process is necessary, requiring several days.

Brief Summary Text (9):
As a result, the vibration-damping mount can be erected around an existing stand. When the vibration-damping mount according to the invention is erected in order to replace an existing stand, a unit that is being held can be left in place, and connections--for example, cables, cooling water lines, or liquid gas lines--to an operating unit can remain. No auxiliaries such as cranes or hoists are needed to hold the unit while the vibration-damping device is being erected. Pneumatic or piezoelectric damping elements are especially suitable as shock absorption elements. The identical structure of the segments results in uniform load distribution. The process of replacing an existing stand that is holding a superconducting magnet (located in a cryostat) of an NMR spectrometer is shortened by the use of the vibration-damping mount according to the invention from several days to a few hours. The complex, laborious readjustment of the superconducting magnets becomes unnecessary.

Brief Summary Text (12):
In a preferred embodiment of the invention, the plate-like parts of the damping device are arranged essentially vertically. As a result, the weight of the unit being held is transferred through the damping material by shear forces that cause shear stresses in the damping material. Vibration damping is influenced favorably, since a viscoelastic plastic foam that is preferably used as the damping material is particularly good at absorbing changes in shear stresses caused by vibrations.

Detailed Description Text (2):
The embodiment of the vibration-damping mount 1 according to the invention depicted in FIG. 1 holds a cryostat 2 of a superconducting magnet system of an NMR spectrometer. This vibration-damping mount 1 has a damping device 10, a supporting structure 20, shock absorption elements 30, and height adapters 40.

Detailed Description Text (3):
The damping device 10 shown in FIG. 2 consists of an inner hollow cylinder 11 (inner cylinder) and an outer hollow cylinder 13 (outer cylinder) concentric therewith, both of which can be made of aluminum, steel, or composite material. Since the damping device 10 is located in the leakage field of the superconducting magnet system of the NMR spectrometer, antimagnetic CrNi steel must be used if the hollow cylinder 13 is made of steel. A viscoelastic plastic foam acting as the damping material 12 is located between these two cylinders. The inner cylinder 11 of the damping device surrounds the cryostat 2.

L72: Entry 4 of 5 File: USPT Jul 17, 1990

DOCUMENT-IDENTIFIER: US 4942219 A
TITLE: Viscoelastic resin for vibration damping material and composition containing the same

Brief Summary Text (7):
Hitherto, as a viscoelastic composition which constitutes the middle layer of such a composite vibration damping material, there have been known a simple polyester (Japanese Patent Kokai No. 50-143880) or a polyester to which a plasticizer is added (Japanese Patent Kokai No. 51-93770); a simple polyurethane foam (Japanese Patent Kokai No. 51-91981); a simple polyamide (Japanese Patent Kokai No. 56-159160); a simple ethylene-polyvinyl acetate copolymer (Japanese Patent Kokai No. 57-34949); a composition of a polyvinyl butyral or a polyvinyl butyral and a polyvinyl acetate to which a plasticizer and a tackifier are added (Japanese Patent Kokoku No. 55-27975); a copolymer of a isocyanate prepolymer and a vinyl monomer (Japanese Patent Kokoku No. 52-26554); copolymers disclosed in Japanese Patent Kokoku Nos. 39-12451 and 45-34703(see counterpart U.S. Pat. No. 3,640,833), and Japanese Patent Kokai No. 62-74645; and the like.

Detailed Description Text (4):
Dimethyl terephthalate (238 parts), dimethyl isophthalate (238 parts), trimellitic acid anhydride (9.6 parts), ethylene glycol (186 parts), neopentyl glycol (208 parts) and tetrabutyl titanate (0.17 part) were placed in a reactor equipped with a thermometer, a stirrer and a reflux condenser. Ester interchange reaction was carried out at 180 to 230.degree. C. for 8 hours and then the pressure of the reaction system was reduced to 5 mmHg over 30 minutes. During this time, the temperature rose to 250.degree. C. Then, polycondensation reaction was carried out under the pressure of 0.3 mmHg at 250.degree. C. for 30 minutes. The polyester thus obtained had the reduced viscosity of 0.61 dl/g. Then, nitrogen gas was introduced into this reaction system and .epsilon.-caprolactone (399 parts) was placed in the reactor. After the reaction system was thoroughly mixed, the system was heated at 220.degree. C. for 2 hours to obtain a copolyester. According to the analysis by NMR, differential scanning calorimeter and the like, the resulting polyester was an amorphous block copolyester having the reduced viscosity of 0.88 dl/g.

First Hit Fwd Refs Previous Doc Next Doc Go to Doc#
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L72: Entry 5 of 5 File: USPT Aug 22, 1989

DOCUMENT-IDENTIFIER: US 4859523 A
TITLE: Viscoelastic resin for vibration damping material

Brief Summary Text (7):
Hitherto, as a viscoelastic composition which constitutes the middle layer of such a composite vibration damping material, there have been known a simple polyester (Japanese Patent Kokai No. 50-143880) or a polyester to which a plasticizer is added (Japanese Patent Kokai No. 51-93770): a simple polyurethane foam (Japanese Patent Kokai No. 51-91981): a simple polyamide (Japanese Patent Kokai No. 56-159160); a simple ethylene-polyvinyl acetate copolymer (Japanese Patent Kokai No. 57-34949): a composition of a polyvinyl butyral or a polyvinyl butyral and a polyvinyl acetate to which a plasticizer and a tackifier are added (Japanese Patent Kokoku No. 55-27975): a copolymer of a isocyanate prepolymer and a vinyl monomer (Japanese Patent Kokoku No. 52-26554): copolymers disclosed in Japanese Patent Kokoku Nos. 39-12451 and 45-34703: and the like.

Detailed Description Text (25):
Terephthalic acid (332 parts), isophthalic acid (498 parts), ethylene glycol (310 parts), neopentyl glycol (520 parts) and tetrabutoxy titanate (0.35 part) were placed in an autoclave equipped with a thermometer and a stirrer. Esterification reaction was carried out under a pressure of 3 to 4 kg/cm.sup.2 at 230.degree. to 240.degree. C. for 3 hours and then the pressure of the reaction system was reduced to 20 mmHg over 30 minutes. Then, polycondensation reaction was carried out under a pressure of 1 to 20 mmHg at 250.degree. C. for 50 minutes to obtain a polyester diol (a) as shown in the following Table 1. According to the analysis of the polyester diol (a), it had the hydroxyl number of 56 and the molecular weight of 2,000. The resin composition was determined by NMR analysis and the like and showed that 40 mol % of terephthalic acid, 60 mol % of isophthalic acid, 38 mol % of ethylene glycol, and 62 mol % of neopentyl glycol.

Previous Doc Next Doc Go to Doc#

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First Hit | Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 20050040825 A1

Using default format because multiple data bases are involved.

L73: Entry 1 of 1 File: PGPB Feb 24, 2005

PGPUB-DOCUMENT-NUMBER: 20050040825
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050040825 A1

TITLE: Acoustically damped gradient coil

PUBLICATION-DATE: February 24, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Sellers, Michael Ben	Florence	SC	US
Duby, Tomas	Florence	SC	US
Clarke, Neil	Florence	SC	US
Mantone, Anthony	Florence	SC	US

US-CL-CURRENT: 324/318

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INSIDES	23675
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OUTSIDES	15684
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PGPUB-DOCUMENT-NUMBER: 20050040825
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050040825 A1

TITLE: Acoustically damped gradient coil

PUBLICATION-DATE: February 24, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Sellers, Michael Ben	Florence	SC	US
Duby, Tomas	Florence	SC	US
Clarke, Neil	Florence	SC	US
Mantone, Anthony	Florence	SC	US

US-CL-CURRENT: 324/318

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